



2006-06-29 0933-0210P.ST25  
SEQUENCE LISTING

<110> SAARMA, Mart et al.

<120> NOVEL NEUROTROPHIC FACTOR PROTEIN AND USES THEREOF

<130> 0933-0210P

<140> US 10/648,361

<141> 2003-08-27

<150> US 60/406,927

<151> 2002-08-30

<160> 22

<170> PatentIn version 3.2

<210> 1

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(564)

<400> 1

atg tgg tgc gcg agc cca gtt gct gtg gtg gcc ttt tgc gcc ggg ctt	48
Met Trp Cys Ala Ser Pro Val Ala Val Ala Phe Cys Ala Gly Leu	
1 5 10 15	

ttg gtc tct cac ccg gtg ctg acg cag ggc cag gag gcc ggg ggg cg	96
Leu Val Ser His Pro Val Leu Thr Gln Gly Gln Glu Ala Gly Gly Arg	
20 25 30	

cca ggg gcc gac tgt gaa gta tgt aaa gaa ttc ttg aac cga ttc tac	144
Pro Gly Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asn Arg Phe Tyr	
35 40 45	

aag tca ctg ata gac aga gga gtt aac ttt tcg ctg gac act ata gag	192
Lys Ser Leu Ile Asp Arg Gly Val Asn Phe Ser Leu Asp Thr Ile Glu	
50 55 60	

aaa gaa ttg atc agt ttt tgc ttg gac acc aaa gga aaa gaa aac cgc	240
Lys Glu Leu Ile Ser Phe Cys Leu Asp Thr Lys Gly Lys Glu Asn Arg	
65 70 75 80	

ctg tgc tat tat cta gga gcc aca aaa gac gca gcc aca aag atc cta	288
Leu Cys Tyr Tyr Leu Gly Ala Thr Lys Asp Ala Ala Thr Lys Ile Leu	
85 90 95	

agt gaa gtc act cgc cca atg agt gtg cat atg cct gca atg aag att	336
Ser Glu Val Thr Arg Pro Met Ser Val His Met Pro Ala Met Lys Ile	
100 105 110	

tgt gag aag ctg aag aag ttg gat agc cag atc tgt gag ctg aaa tat	384
Cys Glu Lys Leu Lys Lys Leu Asp Ser Gln Ile Cys Glu Leu Lys Tyr	
115 120 125	

gaa aaa aca ctg gac ttg gca tca gtt gac ctg cgg aag atg aga gtg	432
Glu Lys Thr Leu Asp Leu Ala Ser Val Asp Leu Arg Lys Met Arg Val	
130 135 140	

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gca gag ctg aag cag atc ctg cat agc tgg ggg gag gag tgc agg gcc Ala Glu Leu Lys Gln Ile Leu His Ser Trp Gly Glu Glu Cys Arg Ala 145 150 155 160	480
tgt gca gaa aaa act gac tat gtg aat ctc att caa gag ctg gcc ccc Cys Ala Glu Lys Thr Asp Tyr Val Asn Leu Ile Gln Glu Leu Ala Pro 165 170 175	528
aag tat gca gcg aca cac ccc aaa aca gag ctc tga Lys Tyr Ala Ala Thr His Pro Lys Thr Glu Leu 180 185	564

<210> 2  
<211> 187  
<212> PRT  
<213> Homo sapiens

<400> 2  
Met Trp Cys Ala Ser Pro Val Ala Val Val Ala Phe Cys Ala Gly Leu  
1 5 10 15  
Leu Val Ser His Pro Val Leu Thr Gln Gly Gln Glu Ala Gly Gly Arg  
20 25 30  
Pro Gly Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asn Arg Phe Tyr  
35 40 45  
Lys Ser Leu Ile Asp Arg Gly Val Asn Phe Ser Leu Asp Thr Ile Glu  
50 55 60  
Lys Glu Leu Ile Ser Phe Cys Leu Asp Thr Lys Gly Lys Glu Asn Arg  
65 70 75 80  
Leu Cys Tyr Tyr Leu Gly Ala Thr Lys Asp Ala Ala Thr Lys Ile Leu  
85 90 95  
Ser Glu Val Thr Arg Pro Met Ser Val His Met Pro Ala Met Lys Ile  
100 105 110  
Cys Glu Lys Leu Lys Lys Leu Asp Ser Gln Ile Cys Glu Leu Lys Tyr  
115 120 125  
Glu Lys Thr Leu Asp Leu Ala Ser Val Asp Leu Arg Lys Met Arg Val  
130 135 140  
Ala Glu Leu Lys Gln Ile Leu His Ser Trp Gly Glu Glu Cys Arg Ala  
145 150 155 160  
Cys Ala Glu Lys Thr Asp Tyr Val Asn Leu Ile Gln Glu Leu Ala Pro  
165 170 175  
Lys Tyr Ala Ala Thr His Pro Lys Thr Glu Leu  
180 185

<210> 3  
<211> 564  
<212> DNA  
<213> Mus musculus

<220>  
<221> CDS  
<222> (1)..(564)

<400> 3  
atg cggtgc atc agt cca act gct ctg gtg acc ttt tgc gcc ggg ttt  
Met Arg Cys Ile Ser Pro Thr Ala Leu Val Thr Phe Cys Ala Gly Phe  
1 5 10 15

tgt atc tcg aac cct gtg ctg gcg cag ggc ctg gag gcc ggt gtg ggg  
Cys Ile Ser Asn Pro Val Leu Ala Gln Gly Leu Glu Ala Gly Val Gly  
96

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20

25

30

ccg agg gct gac tgt gaa gta tgt aaa gaa ttc tta gac cga ttc tac	144
Pro Arg Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asp Arg Phe Tyr	
35 40 45	
aac tcc ctg cta agc aga ggc ata gac ttt tct gcg gac acc ata gag	192
Asn Ser Leu Leu Ser Arg Gly Ile Asp Phe Ser Ala Asp Thr Ile Glu	
50 55 60	
aaa gag ctg ctc aac ttt tgc tca gat gcc aaa gga aaa gaa aac cgc	240
Lys Glu Leu Leu Asn Phe Cys Ser Asp Ala Lys Gly Lys Glu Asn Arg	
65 70 75 80	
ctg tgc tat tat ctg ggg gcc acc aca gat gca gcc acc aag atc cta	288
Leu Cys Tyr Tyr Leu Gly Ala Thr Thr Asp Ala Ala Thr Lys Ile Leu	
85 90 95	
gga gaa gtc act cgt ccc atg agt gta cac ata cct gcc gtg aag att	336
Gly Glu Val Thr Arg Pro Met Ser Val His Ile Pro Ala Val Lys Ile	
100 105 110	
tgt gag aag cta aag aag atg gac agc cag atc tgt gag ctg aaa tac	384
Cys Glu Lys Leu Lys Lys Met Asp Ser Gln Ile Cys Glu Leu Lys Tyr	
115 120 125	
ggg aag aag ctg gac ttg gcg tcg gtg gac ctg tgg aag atg aga gtg	432
Gly Lys Lys Leu Asp Leu Ala Ser Val Asp Leu Trp Lys Met Arg Val	
130 135 140	
gca gag cta aag cag atc ctt cag aga tgg ggg gaa gag tgc agg gca	480
Ala Glu Leu Lys Gln Ile Leu Gln Arg Trp Gly Glu Glu Cys Arg Ala	
145 150 155 160	
tgt gcg gag aaa agt gac tac gtg aac ctc att aga gag ctg gcc ccc	528
Cys Ala Glu Lys Ser Asp Tyr Val Asn Leu Ile Arg Glu Leu Ala Pro	
165 170 175	
aaa tat gta gag ata tac ccc caa acg gag ctc tga	564
Lys Tyr Val Glu Ile Tyr Pro Gln Thr Glu Leu	
180 185	

&lt;210&gt; 4

&lt;211&gt; 187

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 4

Met Arg Cys Ile Ser Pro Thr Ala Leu Val Thr Phe Cys Ala Gly Phe	
1 5 10 15	
Cys Ile Ser Asn Pro Val Leu Ala Gln Gly Leu Glu Ala Gly Val Gly	
20 25 30	
Pro Arg Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asp Arg Phe Tyr	
35 40 45	
Asn Ser Leu Leu Ser Arg Gly Ile Asp Phe Ser Ala Asp Thr Ile Glu	
50 55 60	
Lys Glu Leu Leu Asn Phe Cys Ser Asp Ala Lys Gly Lys Glu Asn Arg	
65 70 75 80	
Leu Cys Tyr Tyr Leu Gly Ala Thr Thr Asp Ala Ala Thr Lys Ile Leu	
85 90 95	
Gly Glu Val Thr Arg Pro Met Ser Val His Ile Pro Ala Val Lys Ile	
100 105 110	

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Cys Glu Lys Leu Lys Lys Met Asp Ser Gln Ile Cys Glu Leu Lys Tyr  
115 120 125  
Gly Lys Lys Leu Asp Leu Ala Ser Val Asp Leu Trp Lys Met Arg Val  
130 135 140  
Ala Glu Leu Lys Gln Ile Leu Gln Arg Trp Gly Glu Glu Cys Arg Ala  
145 150 155 160  
Cys Ala Glu Lys Ser Asp Tyr Val Asn Leu Ile Arg Glu Leu Ala Pro  
165 170 175  
Lys Tyr Val Glu Ile Tyr Pro Gln Thr Glu Leu  
180 185

<210> 5  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 5  
accatgcgtt gcatcagtcc aactgac

26

<210> 6  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 6  
ctcatgggac gagtgacttc tcc

23

<210> 7  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 7  
gtcagagctc cgtttggggg tatatac

26

<210> 8  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 8  
gagctccgtt tgggggtata tc

22

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<210> 9  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 9  
accatgttgt gcgcgagccc agttgc

26

<210> 10  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 10  
gcacactcat tggcgagtg acttc

25

<210> 11  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 11  
gatcagagct ctgttttggg gtgtgtc

27

<210> 12  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Oligonucleotide primer

<400> 12  
gagctctgtt ttgggggtgtg tc

22

<210> 13  
<211> 179  
<212> PRT  
<213> Homo Sapiens

<400> 13

Met Trp Ala Thr Gln Gly Leu Ala Val Arg Val Ala Leu Ser Val Leu  
1 5 10 15

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Pro Gly Ser Arg Ala Leu Arg Pro Gly Asp Cys Glu Val Cys Ile Ser  
20 25 30

Tyr Leu Gly Arg Phe Tyr Gln Asp Leu Lys Asp Arg Asp Val Thr Phe  
35 40 45

Ser Pro Ala Thr Ile Glu Asn Glu Leu Ile Lys Phe Cys Arg Glu Ala  
50 55 60

Arg Gly Lys Glu Asn Arg Leu Cys Tyr Tyr Ile Gly Ala Thr Asp Asp  
65 70 75 80

Ala Ala Thr Lys Ile Ile Asn Glu Val Ser Lys Pro Leu Ala His His  
85 90 95

Ile Pro Val Glu Lys Ile Cys Glu Lys Leu Lys Lys Lys Asp Ser Gln  
100 105 110

Ile Cys Glu Leu Lys Tyr Asp Lys Gln Ile Asp Leu Ser Thr Val Asp  
115 120 125

Leu Lys Lys Leu Arg Val Lys Glu Leu Lys Lys Ile Leu Asp Asp Trp  
130 135 140

Gly Glu Thr Cys Lys Gly Cys Ala Glu Lys Ser Asp Tyr Ile Arg Lys  
145 150 155 160

Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro Lys Ala Ala Ser Ala Pro  
165 170 175

Thr Asp Leu

<210> 14  
<211> 153  
<212> PRT  
<213> Mus musculus

<400> 14

Cys Glu Val Cys Ile Ser Tyr Leu Gly Arg Phe Tyr Gln Asp Leu Lys  
1 5 10 15

Asp Arg Asp Val Thr Phe Ser Pro Ala Thr Ile Glu Glu Leu Ile  
20 25 30

Lys Phe Cys Arg Glu Ala Arg Gly Lys Glu Asn Arg Leu Cys Tyr Tyr  
35 40 45

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Ile Gly Ala Thr Asp Asp Ala Ala Thr Lys Ile Ile Asn Glu Val Ser  
50 55 60

Lys Pro Leu Ala His His Ile Pro Val Glu Lys Ile Cys Glu Lys Leu  
65 70 75 80

Lys Lys Lys Asp Ser Gln Ile Cys Glu Leu Lys Tyr Asp Lys Gln Ile  
85 90 95

Asp Leu Ser Thr Val Asp Leu Lys Lys Leu Arg Val Lys Glu Leu Lys  
100 105 110

Lys Ile Leu Asp Asp Trp Gly Glu Met Cys Lys Gly Cys Ala Glu Lys  
115 120 125

Ser Asp Tyr Ile Arg Lys Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro  
130 135 140

Lys Ala Ala Ser Ala Arg Thr Asp Leu  
145 150

<210> 15

<211> 153

<212> PRT

<213> Rattus norvegicus

<400> 15

Cys Glu Val Cys Ile Ser Tyr Leu Gly Arg Phe Tyr Gln Asp Leu Lys  
1 5 10 15

Asp Arg Asp Val Thr Phe Ser Pro Ala Thr Ile Glu Glu Leu Ile  
20 25 30

Lys Phe Cys Arg Glu Ala Arg Gly Lys Glu Asn Arg Leu Cys Tyr Tyr  
35 40 45

Ile Gly Ala Thr Asp Asp Ala Ala Thr Lys Ile Ile Asn Glu Val Ser  
50 55 60

Lys Pro Leu Ala His His Ile Pro Val Glu Lys Ile Cys Glu Lys Leu  
65 70 75 80

Lys Lys Lys Asp Ser Gln Ile Cys Glu Leu Lys Tyr Asp Lys Gln Ile  
85 90 95

Asp Leu Ser Thr Val Asp Leu Lys Lys Leu Arg Val Lys Glu Leu Lys  
100 105 110

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Lys Ile Leu Asp Asp Trp Gly Glu Met Cys Lys Gly Cys Ala Glu Lys  
115 120 125

Ser Asp Tyr Ile Arg Lys Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro  
130 135 140

Lys Ala Ala Ser Ala Arg Thr Asp Leu  
145 150

<210> 16  
<211> 153  
<212> PRT  
<213> Bos Taurus

<400> 16

Cys Glu Val Cys Ile Ser Tyr Leu Gly Arg Phe Tyr Gln Asp Leu Lys  
1 5 10 15

Asp Arg Asp Val Thr Phe Ser Pro Ala Ser Ile Glu Lys Glu Leu Ile  
20 25 30

Lys Phe Cys Arg Glu Ala Arg Gly Lys Glu Asn Arg Leu Cys Tyr Tyr  
35 40 45

Ile Gly Ala Thr Glu Asp Ala Ala Thr Lys Ile Ile Asn Glu Val Ser  
50 55 60

Lys Pro Leu Ser His His Ile Pro Val Glu Lys Ile Cys Glu Lys Leu  
65 70 75 80

Lys Lys Lys Asp Ser Gln Ile Cys Glu Leu Lys Tyr Asp Lys Gln Ile  
85 90 95

Asp Leu Ser Thr Val Asp Leu Lys Lys Leu Arg Val Lys Glu Leu Lys  
100 105 110

Lys Ile Leu Asp Asp Trp Gly Glu Thr Cys Lys Gly Cys Ala Glu Lys  
115 120 125

Ser Asp Tyr Ile Arg Lys Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro  
130 135 140

Lys Ala Ala Ser Ser Arg Thr Asp Leu  
145 150

<210> 17  
<211> 153  
<212> PRT

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<213> Gallus gallus

<220>

<221> misc\_feature

<222> (123)..(124)

<223> Xaa can be any naturally occurring amino acid

<400> 17

Cys Glu Val Cys Val Thr Phe Leu Gly Arg Phe Tyr Gln Ser Leu Lys  
1 5 10 15

Asp Asn Asn Val Glu Phe Thr Pro Ala Ser Ile Glu Lys Glu Leu Met  
20 25 30

Lys Ser Cys Arg Glu Ala Lys Gly Lys Glu Asn Arg Leu Cys Tyr Tyr  
35 40 45

Ile Gly Ala Thr Ser Asp Ala Ala Thr Lys Ile Ile Asn Glu Val Ser  
50 55 60

Lys Pro Met Ser His His Ile Pro Val Glu Lys Ile Cys Glu Lys Leu  
65 70 75 80

Lys Lys Lys Asp Ser Gln Ile Cys Glu Leu Lys Tyr Asp Lys Gln Ile  
85 90 95

Asp Leu Ser Thr Ala Asp Leu Arg Lys Leu Arg Val Lys Glu Leu Arg  
100 105 110

Arg Ile Leu Asp Asp Trp Gly Glu Ala Cys Xaa Xaa Cys Ala Glu Lys  
115 120 125

Ser Asp Phe Ile Arg Arg Ile His Glu Leu Met Pro Lys Tyr Ala Pro  
130 135 140

Arg Ala Ala Gly Ala Arg Ala Asp Leu  
145 150

<210> 18

<211> 153

<212> PRT

<213> Xenopus laevis

<400> 18

Cys Glu Val Cys Val Ser Phe Leu Ser Arg Phe Tyr Gln Ser Leu Lys  
1 5 10 15

Glu Arg Gln Val Glu Phe Lys Pro Asp Ala Val Glu Lys Glu Leu Leu  
20 25 30

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Lys Thr Cys Asn Asp Ala Arg Gly Lys Glu Asn Arg Leu Cys Tyr Tyr  
35 40 45

Ile Gly Ala Thr Ser Asp Ala Ala Thr Lys Ile Thr Asn Glu Val Ser  
50 55 60

Lys Pro Leu Ser His His Ile Pro Ala Glu Lys Ile Cys Glu Lys Leu  
65 70 75 80

Lys Lys Lys Asp Gly Gln Ile Cys Glu Leu Lys Tyr Asp Lys Gln Ile  
85 90 95

Asp Leu Ser Thr Val Asp Leu Lys Lys Leu Lys Val Lys Glu Leu Lys  
100 105 110

Lys Ile Leu Asp Asp Trp Gly Glu Ser Cys Lys Gly Cys Ala Glu Lys  
115 120 125

Ser Asp Phe Ile Arg Lys Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro  
130 135 140

His Ala Ala Asn Ala Arg Thr Asp Leu  
145 150

<210> 19  
<211> 153  
<212> PRT  
<213> Fugu rubribes

<400> 19

Cys Pro Val Cys Ile Ala Phe Leu Gly Arg Phe Tyr Asp Ser Leu Lys  
1 5 10 15

Asp Asn Glu Val Ala Phe Asn Asn Val Asp Ile Glu Lys Ala Leu Thr  
20 25 30

Lys Ser Cys Asn Asp Ala Lys Gly Lys Glu Asn Arg Gln Cys Tyr Tyr  
35 40 45

Ile Gly Ala Thr Ser Asp Ala Ala Thr Lys Met Ile Asn Glu Val Ser  
50 55 60

Lys Pro Met Ser His His Val Pro Val Glu Lys Ile Cys Glu Lys Leu  
65 70 75 80

Lys Lys Lys Asp Ser Gln Ile Cys Glu Leu Lys Tyr Asp Lys Gln Leu  
85 90 95

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Asp Leu Ser Thr Val Asp Leu Lys Lys Leu Lys Val Lys Asp Leu Lys  
100 105 110

Lys Val Leu Glu Asp Trp Gly Glu Ser Cys Lys Gly Cys Ala Glu Lys  
115 120 125

Ser Asp Phe Ile Arg Lys Ile Thr Glu Leu Met Pro Lys Tyr Ala Pro  
130 135 140

Ala Ala Ala Arg Ala Arg Thr Glu Leu  
145 150

<210> 20  
<211> 153  
<212> PRT  
<213> Danio rerio

<400> 20

Cys Glu Val Cys Val Gly Phe Leu Gln Arg Leu Tyr Gln Thr Ile Gln  
1 5 10 15

Glu Asn Asn Val Lys Phe Asp Ser Asp Ser Ile Glu Lys Ala Leu Leu  
20 25 30

Lys Ser Cys Lys Asp Ala Lys Gly Lys Glu Asn Arg Phe Cys Tyr Tyr  
35 40 45

Ile Gly Ala Thr Ser Asp Ala Ala Thr Lys Ile Thr Asn Glu Val Ser  
50 55 60

Lys Pro Met Ser Tyr His Val Pro Val Glu Lys Ile Cys Glu Lys Leu  
65 70 75 80

Lys Lys Lys Asp Ser Gln Ile Cys Glu Leu Lys Tyr Asp Lys Gln Val  
85 90 95

Asp Leu Ser Ser Val Asp Leu Lys Lys Leu Lys Val Lys Asp Leu Lys  
100 105 110

Lys Ile Leu Glu Glu Trp Gly Glu Ser Cys Lys Gly Cys Val Glu Lys  
115 120 125

Ser Asp Phe Ile Arg Lys Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro  
130 135 140

Ser Ala Ala Lys Ala Arg Thr Asp Leu  
145 150

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<210> 21  
<211> 146  
<212> PRT  
<213> Drosophila melanogaster

<400> 21

Cys Glu Val Cys Val Lys Thr Val Arg Arg Phe Ala Asp Ser Leu Asp  
1 5 10 15

Asp Ser Thr Lys Lys Asp Tyr Lys Gln Ile Glu Thr Ala Phe Lys Lys  
20 25 30

Phe Cys Lys Ala Gln Lys Asn Lys Glu His Arg Phe Cys Tyr Tyr Leu  
35 40 45

Gly Gly Leu Glu Glu Ser Ala Thr Gly Ile Leu Asn Glu Leu Ser Lys  
50 55 60

Pro Leu Ser Trp Ser Met Pro Ala Glu Lys Ile Cys Glu Lys Leu Lys  
65 70 75 80

Lys Lys Asp Ala Gln Ile Cys Asp Leu Arg Tyr Glu Lys Gln Ile Asp  
85 90 95

Leu Asn Ser Val Asp Leu Lys Leu Lys Val Arg Asp Leu Lys Lys  
100 105 110

Ile Leu Asn Asp Trp Asp Glu Ser Cys Asp Gly Cys Leu Glu Lys Gly  
115 120 125

Asp Phe Ile Lys Arg Ile Glu Glu Leu Lys Pro Lys Tyr Ser Arg Ser  
130 135 140

Glu Leu  
145

<210> 22  
<211> 147  
<212> PRT  
<213> Canorhabditis elegans

<400> 22

Cys Glu Val Cys Lys Lys Val Leu Asp Asp Val Met Ala Lys Val Pro  
1 5 10 15

Ala Gly Asp Lys Ser Lys Pro Asp Ala Ile Gly Lys Val Ile Arg Glu  
20 25 30

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His Cys Glu Thr Thr Arg Asn Lys Glu Asn Lys Phe Cys Phe Tyr Ile  
35 40 45

Gly Ala Leu Pro Glu Ser Ala Thr Ser Ile Met Asn Glu Val Thr Lys  
50 55 60

Pro Leu Ser Trp Ser Met Pro Thr Glu Lys Val Cys Leu Glu Lys Leu  
65 70 75 80

Lys Gly Lys Asp Ala Gln Ile Cys Glu Leu Lys Tyr Asp Lys Pro Leu  
85 90 95

Asp Trp Lys Thr Ile Asp Leu Lys Lys Met Arg Val Lys Glu Leu Lys  
100 105 110

Asn Ile Leu Gly Glu Trp Gly Glu Val Cys Lys Gly Cys Thr Glu Lys  
115 120 125

Ala Glu Leu Ile Lys Arg Ile Glu Glu Leu Lys Pro Lys Tyr Val Lys  
130 135 140

Glu Glu Leu  
145